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This sixth volume in the fourth series of general bibliographies produced by the Science and Mathematics Education Information Analysis Center updates, but does not replace, previous bibliographies in this series. Documents which contain resource materials for teachers of elementary, secondary, and college science, and which have been indexed or abstracted at the Center, are listed in the following categories: Elementary Education, with subdivisions of Science and Health Education; Secondary Education, with Biological Sciences and Health Education; Physical and Earth Sciences, Mathematics, and General subdivisions: College Science, categorized as Biological Sciences, Physical and Earth Sciences, and Mathematics; and General (containing documents pertinent to more than one educational level) with the same subdivisions as the secondary section. There is an author index. Each citation includes author, title, publisher or journal citation, SE identification number, and, for documents announced in Research in Education, the ED identification number and availability information. Descriptors and identifiers used in indexing are included for each document listed. Documents cited include teachers guides, laboratory exercises, "teacher tips" and accounts of educational practice. (AL)



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TEACHER RESOURCE MATERIALS

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THE ARITHMETIC TEACHER

11 00 69

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*ARITHMETIC, *CLASSROOM TECHNIQUES, *ELEMENTARY SCHOOL MATHEMATICS, *LEARNING ACTIVITIES, *NUMBER CONCEPTS, MATHEMATICS EDUCATION

10. SE 500 481

LIEDTKE, WERNER

WHAT CAN YOU DO WITH A GEOBOARD?

THE ARITHMETIC TEACHER

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*ELEMENTARY SCHOOL MATHEMATICS, *GRAPHS, *GEOMETRIC CONCEPTS, *INSTRUCTION, *TEACHING TECHNIQUES, NUMBER CONCEPTS

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MATHISON, SALLY

SOLUTING STORY PROBLEMS AND LIKING IT

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11 00 60

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*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *MOTIVATION, *PROBLEM SOLVING, NUMBER CONCEPTS, TEACHING TECHNIQUES

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MILNE, ESTHER

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OGLETREE, EARL

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*ARITHMETIC, *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL MATHEMATICS,
*MATHEMATICS EDUCATION, *TERMINOLOGY, CONCEPTS, FUNDAMENTAL CONCEPTS, GEOMETRY,
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PINCUS, MORRIS

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- 4. SE 007 402
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NORRIS, DAVID O.
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PIERCE, RAYMOND G.
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AMEND, JOHN R.

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ARCHENHOLD, W. F.

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CHESLEY, ROBERT E.

A FLIGHT TO REALITY

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*PHYSICAL SCIENCES, *SCIENCE ACTIVITIES, AEROSPACE TECHNOLOGY, PHYSICS, SECONDARY SCHOOL SCIENCE

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AN EXPERIENCE IN OBSERVATION

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FRANKLIN, WILLIAM R.

THE PSYCHEDELIC STUDENT-GETTER

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*LABORATORY TECHNIQUES, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *TEACHING TECHNIQUES, ELECTRICITY, ELECTRIC CIRCUITS, INSTRUCTIONAL MATERIALS, SCIENCE EQUIPMENT

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BAILEY, WILLIAM T.

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BOE, BARBARA L.

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*GEOMETRY, *GEOMETRIC CONCEPTS, *HISTORY, *MATHEMATICS EDUCATION, MATHEMATICAL ENRICHMENT, SECONDARY SCHOOL MATHEMATICS, 1969

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FORSYTHE, ALEXANDRA

WHAT POINTS ARE EQUIDISTANT FROM TWO SKEW LINES?

THE MATHEMATICS TEACHER

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*ANALYTIC GEOMETRY, *GEOMETRY, *INSTRUCTION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, GEOMETRIC CONCEPTS

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FRANDSEN, HENRY

THE LAST WORD ON SOLVING INEQUALITIES

THE MATHEMATICS TEACHER

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*ALGEBRA, *INSTRUCTION, *INEQUALITIES, *PROBLEM SOLVING, *SECONDARY SCHOOL MATHEMATICS, MATHEMATICS, TEACHING PROCEDURES

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FREDERIKSEN, JOHN G.

SQUARE ROOT +

THE ARITHMETIC TEACHER

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*INSTRUCTION, *TEACHING TECHNIQUES, ARITHMETIC, GRADE 7, NUMBER CONCEPTS, SQUARE ROOT

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GEDDES, DOROTHY; LIPSEY, SALLY I.

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*INSTRUCTION, *MATHEMATICAL CONCEPTS, *SET THEORY, *SECONDARY SCHOOL MATHEMATICS, RESOURCE MATERIALS

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GLAYMANN, MAURICE

INITIATION TO VECTOR SPACES

EDUCATIONAL STUDIES IN MATHEMATICS

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*GEOMETRY, *GEOMETRIC CONCEPTS, *INSTRUCTION, *SECONDARY SCHOOL MATHEMATICS, *VECTOR SPACE



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GUNDLACH, BERNARD H.

THE HISTORY OF NUMBERS AND NUMERALS

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SOME INTERESTING MATHEMATICAL AND OPTICAL PROPERTIES OF PARABOLAS AND

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HIRSCH, JOSEPH

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*COMPUTER ASSISTED INSTRUCTION, *INSTRUCTION, *NUMBER CONCEPTS, *PRIME NUMBERS,

*SECONDARY SCHOOL MATHEMATICS, WHOLE NUMBERS

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A MEDIEVAL PROOF OF HERON'S FORMULA

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*ALGEBRA, *GEOMETRIC CONCEPTS, *HISTORY, *RESOURCE MATERIALS, *SECONDARY SCHOOL MATHEMATICS, GEOMETRY, MATHEMATICS

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KANIER, L. H.

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*GEOMETRY, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, REFERENCE MATHERIALS

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THE HISTORY OF TRIGONOMETRY

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A CLASSROOM ILLUSTRATION OF A NONINTUITIVE PROBABILITY

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*MATHEMATICS, *PROBLEM SOLVING, *PROBABILITY, *SECONDARY SCHOOL MATHEMATICS, PREDICTIVE MEASUREMENT, TEACHING PROCEDURES

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MATTHEWS, E. REBECCA

A SIMPLE "7" DIVISIBILITY RULE

THE MATHEMATICS TEACHER

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*ARITHMETIC, *DIVISION, *INSTRUCTION, *SECONDARY SCHOOL MA HEMATICS, *TEACHING TECHNIQUES

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MILLER, WILLIAM A.

QUADRATIC EXTENSIONS OF FINITE FIELDS

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GEOMETRIC SOLUTION OF A QUADRATIC EQUATION

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*ALGEBRA, *INSTRUCTION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHING GUIDES, CURRICULUM, GEOMETRY, GRADE 9, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, BOARD OF EDUCATION, NEW YORK CITY, NEW YORK

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THE AREA OF A PYTHAGOREAN TRIANGLE AND THE NUMBER SIX

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*MATHEMATICAL CONCEPTS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, GEOMETRY, NUMBER CONCEPTS

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PRIELIPP, ROBERT W.

DIGITAL SUMS OF PERFECT NUMBERS AND TRIANGULAR NUMBERS

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*DISCOVERY LEARNING, *MATHEMATICAL CONCEPTS, *NUMBER CONCEPTS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, MATHEMATICS

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*MATHEMATICS, *MATHEMATICAL ENRICHMENT, *TEACHER RESOURCE MATHERIALS, ALGEBRA, ENRICHMENT, GEOMETRY, MATHEMATICAL CONCEPTS, MATHEMATICS INSTRUCTION, REFERENCE MATERIALS, RESOURCE MATERIALS, SECONDARY SCHOOL MATHEMATICS

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WILLSON, WILLIAM WYNNE

THE UNIQUENESS OF THE FIELD OF COMPLEX NUMBER

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*ALGEBRA, *COMPLEX NUMBERS, *MATHEMATICS, *NUMBER CONCEPTS, *SECONDARY SCHOOL MATHEMATICS, MATHEMATICAL CONCEPTS

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A HEURISTIC APPROACH TO PYTHAGOREAN TRIPLES

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*ALGEBRA, *DISCOVERY PROCESSES, *MATHEMATICS, *PROBLEM SOLVING, *SECONDARY SCHOOL MATHEMATICS, MATHEMATICAL CONCEPTS, TEACHING PROCEDURES

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TRICKY, TROUBLESOME TRIANGLES

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*GEOMETRY, *INSTRUCTION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, MATHEMATICAL ENRICHMENT



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*DEMONSTRATIONS (EDUCATIONAL), *MEASUREMENT, *NEWSLETTERS, *SCIENTIFIC
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*PHYSICS, *TEACHER WORKSHOPS, BIOLOGY, COLLEGE PREPARATION, DEMONSTRATIONS
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*INQUIRY LEARNING, *MATHEMATICS CONCEPTS, *NEWSLETTERS, *PHYSICS, COLLEGE
HIGH SCHOOL COOPERATION, CURRICULUM GUIDES, SECONDARY SCHOOL SCIENCE,
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BALTIMORE COUNTY PUBLIC SCHOOLS

A PILOT PROGRAM FOR JUNIOR HIGH SCHOOL SCIENCE - GRADE 7 BALTIMORE COUNTY PUBLIC SCHOOLS, MARYLAND

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68 340

*CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *SCIENCE PROCESS SKILLS, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, GRADE 7, LABORATORY MANUALS, BALTIMORE COUNTY PUBLIC SCHOOLS, MARYLAND



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A PILOT PROGRAM FOR JUNIOR HIGH SCHOOL SCIENCE - GRADE 8
BALTIMORE COUNTY PUBLIC SCHOOLS, MARYLAND

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*CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, BIOLOGY, EARTH SCIENCE, GRADE 8, LABORATORY MANUALS, BALTIMORE COUNTY SCHOOLS, MARYLAND

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BALTIMORE COUNTY PUBLIC SCHOOLS, MARYLAND

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*CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *SCIENCE ACTIVITIES,
*SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, GRADE 9, LABORATORY MANUALS,
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GRAPHING AND THE CENTIGRADE-FAHRENHEIT RELATIONSHIP

SCHOOL SCIENCE AND MATHEMATICS

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*GRAPHING, *INSTRUCTION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, GENERAL SCIENCE, SECONDARY SCHOOL SCIENCE, TEACHING TECHNIQUES

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ADDITIVES IN MEAT

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*BIOLOGY, *CHEMISTRY, CONSUMER EDUCATION, GRADE 7, GRADE 8, GRADE 9, HEALTH EDUCATION, INSTRUCTION, LABORATORY TECHNIQUES, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE



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THE WORKING OF THE HUMAN EYE

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*BIOLOGY, DEMONSTRATIONS, *INSTRUCTIONAL MATERIALS, *LABORATORY TECHNIQUES, *LENSES, *PHYSICS, SCIENCE ACTIVITIES, SECONDARY SCHOOL SCIENCE, VISION



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*BIOLOGY, DEMONSTRATIONS, *INSTRUCTIONAL MATERIALS, *LABORATORY TECHNIQUES, *LENSES, *PHYSICS, SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, VISION

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*BIOLOGY, DEMONSTRATIONS, *INSTRUCTIONAL MATERIALS, *LABORATORY TECHNIQUES, *LENSES, *PHYSICS, SCIENCE ACTIVITIES, SECONDARY SCHOOL SCIENCE, VISION

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DROP DISCRIMINATOR AND IONIZER FOR MILLIKAN'S OIL DROP EXPERIMENT AMERICAN JOURNAL OF PHYSICS

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EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND

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COMPUTERS, *COLLEGE SCIENCE, *CHEMISTRY, CONFERENCES, CONFERENCE REPORTS, *CURRICULUM, *EDUCATIONAL PROGRAMS, FILMS, JUNIOR COLLEGES, NEWSLETTERS, TEACHER EDUCATION

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